

## Active GMP Recombinant Human IL1A protein

Cat. No. IL1A-101HG Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Active GMP Recombinant Human IL1A protein was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E. coli
<b>Form</b>	Lyophilized from a 0.2 µm filtered concentrated solution in 25 mM Tris-HCl, 3 mM β-Me and 5% Trehalose, pH 8.0.
<b>Bio-activity</b>	Fully biologically active when compared to standard. The ED50 as determined by a cell proliferation assay using murine D10S cells is less than 1.0 pg/mL, corresponding to a specific activity of > 1.0 × 10 <sup>9</sup> U/mg.
<b>Molecular Mass</b>	Approximately 18.0 kDa, a single non-glycosylated polypeptide chain containing 159 amino acids.
<b>AASequence</b>	SAPFSFLSNV KYNFMRIIKY EFILNDALNQ SIIRANDQYL TAAALHNLDE AVKFDMGAYK SSKDDAKITV ILRISKTQLY VTAQDEDQPV LLKEMPEIPK TITGSETNLL FFWETHGTKN YFTSVAHPNL FIATKQDYWV CLAGGPPSIT DFQILENQA
<b>Endotoxin</b>	Less than 0.01 EU/µg of rHuIL-1α GMP as determined by LAL method.
<b>Purity</b>	> 98 % by SDS-PAGE and HPLC analyses.

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**Storage** Use a manual defrost freezer and avoid repeated freeze-thaw cycles. - 12 months from date of receipt, -20 to -70 °C as supplied. - 1 month, 2 to 8 °C under sterile conditions after reconstitution. - 3 months, -20 to -70 °C under sterile conditions after reconstitution.

**Reconstitution** We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.

## GENE INFORMATION

**Gene Name** IL1A interleukin 1, alpha [ Homo sapiens ]

**Official Symbol** IL1A

**Synonyms** IL1A; interleukin 1, alpha; IL1; interleukin-1 alpha; hematopoietin 1; IL 1A; IL1 ALPHA; IL1F1; preinterleukin 1 alpha; pro interleukin 1 alpha; IL-1 alpha; hematopoietin-1; pro-interleukin-1-alpha; IL-1A; IL1-ALPHA;

**Gene ID** 3552

**mRNA Refseq** NM\_000575

**Protein Refseq** NP\_000566

**MIM** 147760

**UniProt ID** P01583

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